

DERWENT-ACC-NO: 1994-290504  
DERWENT-WEEK: 199617  
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TITLE: Biodegradable thermoplastic resin film - obtd. by overlaying films  
contg. modified thermoplastic resin and biodegradable resin on each other, and  
heat welding

PATENT-ASSIGNEE: AGENCY OF IND SCI & TECHNOLOGY[AGEN], JSP  
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TECHNOLOGY[JASY], SHOWA KAKO KK SCI & TECHNOLOGY[SHOWN]

PRIORITY-DATA: 1992JP-0086443 (March 10, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 96029574 B2	March 27, 1996	N/A	006	B32B 007/04
JP 06218867 A	August 9, 1994	N/A	007	B32B 007/08

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP96029574B2	N/A	1992JP-0086443	March 10, 1992
JP96029574B2	Previous Publ.	JP 6218867	N/A
JP06218867A	N/A	1992JP-0086443	March 10, 1992

INT-CL\_(IPC): A41D019/00; B32B003/26 ; B32B007/04 ; B32B007/08 ;  
C08L023/00 ; C08L029/04 ; C08L029/12 ; C08L033/00 ; C08L069/00 ;  
C08L077/12 ; C08L101/00 ; C09J007/00

ABSTRACTED-PUB-NO: JP06218867A

BASIC-ABSTRACT: Welded material is prepd by overlaying films each prepd by  
mixing 50-10 wt% modified polyolefin resin with 50-90 wt% of a biodegradable  
thermoplastic resin as a matrix resin to disperse, on each other, and  
heat-welding a part of the overlayed films to form a welded portion and a  
non-welded portion.

USE/ADVANTAGE - The welded material is useful for gloves, bags, air-contg  
buffer materials, etc. The material, when disposed, can be quickly biodegraded.  
The welded material has good strength, tensile properties, pliability and no  
whitening when stretched.

In an example, a polycaprolactone and an ethylene/ethyl acrylate copolymer  
resin with a carbonyl contg monomer content of 4.0 wt% are compounded at  
mixt

wt ratio of 60-40. The compound is inflation-moulded into a film with thickness of 50 microns.

CHOSEN-DRAWING: Dwg.0/5

**TITLE-TERMS:**

BIODEGRADABLE THERMOPLASTIC RESIN FILM OBTAIN OVERLAY FILM  
CONTAIN MODIFIED  
THERMOPLASTIC RESIN BIODEGRADABLE RESIN HEAT WELD

DERWENT-CLASS: A17 A35 A94 P21 P73

CPI-CODES: A07-A01; A07-A02; A07-A04; A09-A07; A10-E01; A11-C01A1;  
A12-P02;  
A12-S06B; A12-S06D;

**ENHANCED-POLYMER-INDEXING:**

**Polymer Index [1.1]**

017 ; G0033\*R G0022 D01 D02 D51 D53 ; H0000 ; H0011\*R ; S9999 S1285\*R  
; M9999 M2391 ; S9999 S1296 S1285 ; P1150

**Polymer Index [1.2]**

017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ;  
R01126 G0340 G0339 G0260 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D85  
F41 ; H0022 H0011 ; S9999 S1285\*R ; S9999 S1296 S1285 ; P1150 ;  
P0088 ; P0180

**Polymer Index [1.3]**

017 ; G0022\*R D01 D51 D53 F23 ; R00326 G0044 G0033 G0022 D01 D02  
D12 D10 D51 D53 D58 D82 ; R00642 G0340 G0339 G0260 G0022 D01 D11  
D10 D12 D51 D53 D58 D63 D84 F41 ; H0033 H0011 ; S9999 S1285\*R ;  
S9999 S1296 S1285 ; P1150 ; P0088

**Polymer Index [1.4]**

017 ; ND07 ; ND10 ; N9999 N7147 N7034 N7023 ; N9999 N7192 N7023  
; N9999 N6166 ; K9574 K9483 ; K9676\*R ; Q9999 Q7078 Q7056 ; Q9999  
Q8413 Q8399 Q8366 ; Q9999 Q7954 Q7885 ; Q9999 Q7761 ; B9999 B4091\*R  
B3838 B3747 ; B9999 B4171 B4091 B3838 B3747 ; B9999 B4035 B3930  
B3838 B3747 ; B9999 B4262 B4240 ; B9999 B3918 B3838 B3747 ; K9745\*R  
; B9999 B5243\*R B4740

**Polymer Index [2.1]**

017 ; R01295 G2131 D01 D23 D22 D31 D42 D50 D86 F43 ; H0000 ; P0055  
; P0839\*R F41 D01 D63 ; S9999 S1285\*R ; S9999 S1296 S1285 ; H0317

**Polymer Index [2.2]**

017 ; ND07 ; ND10 ; N9999 N7147 N7034 N7023 ; N9999 N7192 N7023  
; N9999 N6166 ; K9574 K9483 ; K9676\*R ; Q9999 Q7078 Q7056 ; Q9999  
Q8413 Q8399 Q8366 ; Q9999 Q7954 Q7885 ; Q9999 Q7761 ; B9999 B4091\*R  
B3838 B3747 ; B9999 B4171 B4091 B3838 B3747 ; B9999 B4035 B3930  
B3838 B3747 ; B9999 B4262 B4240 ; B9999 B3918 B3838 B3747 ; K9745\*R